

ABSTRACT OF THE DISCLOSURE

A bi-directional damper valve is provided for connecting to a hydraulic line, to regulate fluid flow therethrough. The damper valve includes a main valve body having a flow passage formed therethrough, and the flow passage widens at central portion of the valve body to form a central chamber, which has valve seats formed at opposite ends thereof. The main valve body
5 also has two bypass channels formed therein, which branch off the central chamber near the valve seats, and which selectively communicate with the flow passage. The damper valve also includes two poppets, oriented facing in opposite directions in the central chamber. Each of the poppets has a hollow bore formed therethrough, to always allow fluid flow through the damper valve at a first (minimal) rate. The damper valve also includes a spring extending between the
10 poppets, and normally biasing them against the valve seats.